

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------|---------|------------------|
| L1 | 20 | (US-6732685-\$ or US-4050435-\$ or US-6575126-\$ or US-4423709-\$ or US-6308690-\$ or US-4206728-\$ or US-5327858-\$ or US-6722349-\$ or US-6601563-\$ or US-5839453-\$ or US-4399787-\$ or US-5000145-\$ or US-5816216-\$ or US-6237551-\$ or US-6928969-\$ or US-5996550-\$ or US-6012424-\$ or US-5809964-\$ or US-5787859-\$ or US-5692469-\$). did. | USPAT | OR | ON | 2007/05/29 05:38 |
| L2 | 6 | L1 and insufficient\$2 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/05/29 05:38 |
| S1 | 2 | "6732685" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/30 09:55 |
| S2 | 74 | leman-scott-\$.in. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/30 10:41 |
| S3 | 9104 | 123/90.59,90.24,90.28,90.29,90.32, 90.42-90.47,90.39,90.5,90.56,90.63, 47AA,198F,90.11-90.18,90.55.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/07 14:48 |
| S4 | 5078 | 251/14,17,20,58,62,63,63.4,78,82, 89.5,95,129.03,129.2,149,149.9, 296.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/07 14:50 |
| S5 | 24 | S3 and S4 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/04 18:37 |
| S6 | 11 | "5327858" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/04 18:49 |
| S7 | 44 | "4206728" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/04 18:51 |
| S8 | 30 | "4050435" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/04 18:51 |

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| S9 | 13 | "4423709" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/04 18:51 |
| S10 | 8280 | 123/90.11,90.12,90.15-90.17,90.32, 90.44-90.48,90.52,90.55,90.56,90. 63,198F.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/07 14:49 |
| S11 | 5264 | 251/14,17,20,58,62,63,63.4,78,82, 89.5,95,129.03,129.2,129.19,149, 149.9,296.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/07 14:59 |
| S12 | 6388 | 251/14,17,20,58,62,63,63.4,77,78, 82,89,89.5,95,129.03,129.2,129.19, 149,149.9,296.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/07 15:00 |
| S13 | 14636 | S10 or S12 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/07 15:00 |
| S14 | 5 | S10 and 251/77,78,89.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/07 15:11 |
| S15 | 0 | S13 and (mechanic\$4 near2 actuat\$3) same (pressur\$5 near2 insufficient) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/07 16:20 |
| S16 | 95 | S13 and (pressur\$5 near2 insufficient) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/07 16:21 |
| S17 | 17 | S13 and (pressur\$5 near2 insufficient) with open\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/07 16:22 |
| S18 | 0 | S13 and ("not" near2 sufficient) with (open\$3 near3 pressur\$5) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/07 15:24 |
| S19 | 0 | S13 and ("not" near2 sufficient) with open\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/07 15:22 |
| S20 | 0 | S13 and ("not" near2 sufficient) with pressur\$5 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/07 15:22 |

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| S21 | 0 | S13 and ("not" near2 sufficient) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/07 15:22 |
| S22 | 57 | S13 and sufficient with (open\$3 near3 pressur\$5) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/07 16:22 |
| S23 | 0 | S13 and open\$3 with (sufficent\$2 near3 pressur\$5) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/07 15:25 |
| S24 | 4 | S13 and hold\$3 with (open\$3 near3 intermediate) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/07 16:23 |
| S25 | 33 | "5193495" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/07 16:09 |
| S26 | 11 | "6129073" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/07 16:10 |
| S27 | 4 | "6390037" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/07 16:10 |
| S28 | 735 | 123/568.11,568.14,568.21,568.26. ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/07 16:20 |
| S29 | 0 | S28 and (mechanic\$4 near2 actuat\$3) same (pressur\$5 near2 insufficient) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/07 16:20 |
| S30 | 11 | S28 and (pressur\$5 near2 insufficient) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/07 16:21 |
| S31 | 1 | S28 and (pressur\$5 near2 insufficient) with open\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/07 16:22 |
| S32 | 0 | S28 and sufficient with (open\$3 near3 pressur\$5) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/07 16:22 |

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| S33 | 1 | S28 and hold\$3 with (open\$3 near3 intermediate) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/07 16:23 |
| S34 | 2 | "6668773" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/08 09:50 |
| S35 | 2 | "6655349" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/08 09:45 |
| S36 | 6 | "6505585" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/08 09:50 |
| S37 | 6 | "6378473" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/08 09:54 |
| S38 | 24 | "5000145" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/08 09:55 |
| S39 | 8 | "6253730" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/08 09:56 |
| S40 | 18056 | caterpillar.as. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/04/09 13:58 |
| S41 | 171 | S40 and intermediate adj position | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/08 10:31 |
| S42 | 7 | S41 and pressur\$7 near3 insufficient | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/08 10:34 |
| S43 | 40 | S40 and (hold\$3 with position) same low adj pressure | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/08 10:38 |
| S44 | 10 | S40 and predetermin\$3 with intermittent | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/08 10:38 |

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|-----|-----|--------------------------------------------------|---------------------------------------------|----|----|------------------|
| S45 | 605 | S40 and predetermin\$3 with time | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/08 10:39 |
| S46 | 235 | S40 and predetermin\$3 with period near2 time | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/08 10:39 |
| S47 | 2 | (US-4050435-\$ or US-4423709-\$). did. | USPAT | OR | ON | 2004/09/08 11:37 |
| S48 | 0 | S47 and backflow | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/09/08 11:38 |
| S49 | 2 | "20040206331" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/06/03 12:52 |
| S50 | 2 | "20040118118" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/06/03 12:56 |
| S51 | 2 | "20030145810" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/06/03 13:03 |
| S52 | 2 | "20020157623" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/06/03 13:03 |
| S53 | 2 | "20010023671" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/06/03 13:04 |
| S54 | 2 | "20010002379" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/06/03 13:06 |

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| S55 | 51 | US-3250068-\$.DID. OR US-4033304-\$.DID. OR US-4206728-\$.DID. OR US-4643049-\$.DID. OR US-4815423-\$.DID. OR US-4833971-\$.DID. OR US-5327858-\$.DID. OR US-5363816-\$.DID. OR US-5408979-\$.DID. OR US-5445128-\$.DID. OR US-5586531-\$.DID. OR US-5615646-\$.DID. OR US-5713331-\$.DID. OR US-5732678-\$.DID. OR US-5816216-\$.DID. OR US-5829397-\$.DID. OR US-5839400-\$.DID. OR US-5839453-\$.DID. OR US-5927075-\$.DID. OR US-6006706-\$.DID. OR US-6020651-\$.DID. OR US-6026786-\$.DID. OR US-6101998-\$.DID. OR US-6135073-\$.DID. OR US-6170441-\$.DID. OR US-6209516-\$.DID. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/06/03 13:17 |
| S56 | 12 | "4161166" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/06/03 13:20 |
| S57 | 28 | US-6237551-\$.DID. OR US-6244257-\$.DID. OR US-6267107-\$.DID. OR US-6273076-\$.DID. OR US-6279550-\$.DID. OR US-6301887-\$.DID. OR US-6301889-\$.DID. OR US-6302076-\$.DID. OR US-6439195-\$.DID. OR US-6467452-\$.DID. OR US-6571765-\$.DID. OR US-6651618-\$.DID. OR US-6688280-\$.DID. OR US-6772742-\$.DID. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/06/03 13:25 |
| S58 | 2 | wo-9802653-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/06/03 13:27 |
| S59 | 0 | wo-0120150-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/06/03 13:27 |

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| S60 | 0 | wo-120150-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/06/03 13:27 |
| S61 | 1 | jp-05106415-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/06/03 13:27 |
| S62 | 0 | jp-12120457-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/06/03 13:28 |
| S63 | 0 | jp-12145484-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/06/03 13:28 |
| S64 | 15198 | caterpillar-\$.as. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/06/12 15:19 |
| S65 | 18660 | caterpillar.as. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/06/12 15:19 |
| S66 | 18660 | S64 or S65 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/06/12 15:19 |
| S67 | 23 | S66 and 123/90.16.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/06/12 15:20 |
| S68 | 61 | S66 and (123/90.16 or 123/90.12). ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/06/12 15:20 |
| S69 | 9 | (US-4050435-\$ or US-4206728-\$ or US-4423709-\$ or US-5000145-\$ or US-5327858-\$ or US-5816216-\$ or US-5839453-\$ or US-6722349-\$ or US-6732685-\$).did. | USPAT | OR | ON | 2005/06/12 15:42 |
| S70 | 4 | S69 and ((intake or inlet) near2 stroke) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/06/12 15:44 |
| S71 | 4 | S69 and ((exhaust or outlet) near2 gas) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/06/12 15:45 |

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| S72 | 15407 | caterpillar-\$.as. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/04/09 13:58 |
| S73 | 19075 | caterpillar.as. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/30 09:55 |
| S74 | 19075 | S72 or S73 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/30 09:55 |
| S75 | 531 | S74 and miller | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/30 09:56 |
| S76 | 13 | S74 and miller | US-PGPUB | OR | ON | 2005/11/30 10:37 |
| S77 | 0 | "6378473" | US-PGPUB | OR | ON | 2005/11/30 10:40 |
| S78 | 107 | yamaki-\$.in. | US-PGPUB | OR | ON | 2005/11/30 10:40 |
| S79 | 6 | "6378473" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/30 10:42 |
| S80 | 5 | "6668773" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/30 10:44 |
| S81 | 3 | "6655349" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/30 10:45 |
| S82 | 33 | "4258671" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/30 10:53 |
| S83 | 24 | "6688280" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/30 11:17 |
| S84 | 9 | "6257182" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/30 11:26 |
| S85 | 8 | "6647935" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/30 11:27 |

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| S86 | 2 | "6691654" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/30 11:27 |
| S87 | 53 | "5537976" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/30 11:47 |
| S88 | 5 | "6807929" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/30 11:48 |
| S89 | 2 | "20040168685" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/30 11:49 |
| S90 | 41 | "6273076" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/30 11:52 |
| S91 | 12 | "6302076" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/30 11:53 |
| S92 | 14 | "6510824" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/30 11:56 |
| S93 | 16 | "5233948" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/30 12:01 |
| S94 | 24 | "6279550" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/30 12:02 |
| S95 | 35 | "4153016" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/30 12:07 |
| S96 | 30 | "5419301" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/30 12:09 |
| S97 | 54 | "6237551" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/30 12:13 |

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| S98 | 11 | "6006706" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/30 12:14 |
| S99 | 10 | "6006705" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/30 12:14 |
| S10 0 | 5 | "6213069" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/30 12:15 |
| S10 1 | 15 | "6360531" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/30 12:15 |
| S10 2 | 2 | ep-1389673-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/30 12:16 |
| S10 3 | 49 | "4399787" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/30 12:53 |
| S10 4 | 32 | "5201290" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/11/30 12:53 |
| S10 5 | 194 | riddle-\$.xa. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/07 15:28 |
| S10 6 | 8 | S105 and caterpillar-\$.as. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/07 15:29 |
| S10 7 | 2 | riddle-\$.xp. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/07 15:28 |
| S10 8 | 154 | eshete-\$.xa. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/07 15:29 |
| S10 9 | 251 | chang-ching.xa. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/07 15:29 |

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| S11 0 | 754 | corrigan-\$.xa. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/07 15:29 |
| S11 1 | 1159 | S108 or S109 or S110 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/07 15:29 |
| S11 2 | 16 | S111 and caterpillar-\$.as. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/07 15:29 |
| S11 3 | 49 | "4696265" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/07 15:49 |
| S11 4 | 7 | "6601563" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/07 15:51 |
| S11 5 | 60 | "6237551" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/07 15:52 |
| S11 6 | 4 | "6655349" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/07 15:53 |
| S11 7 | 5 | "6668773" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/07 15:53 |
| S11 8 | 25 | ("20010027773" "20020023619" "20020056435" "4356806" "4426986" "4572114" "4700684" "5012778" "5479890" "5483927" "5601068" "5657630" "5709191" "5718199" "5787859" "5809964" "5832880" "5941220" "5967115" "6009709" "6012424" "6170474" "6354254" "6439195" "6510824").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/02/07 15:54 |

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| S11 9 | 52 | ("3220392" "4378765" "4423712" "4455977" "4572114" "4706625" "4836162" "4932372" "4949751" "4981119" "5127375" "5146890" "5161501" "5186141" "5201290" "5406918" "5485819" "5537976" "5546914" "5609133" "5647318" "5680841" "5787859" "5809964" "5829397").PN. OR ("5787859" "5809964" "6012424").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/02/07 16:09 |
| S12 0 | 22 | compression near2 (brak\$3 or releas\$3) same (intermediate near2 position) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/08 13:23 |
| S12 1 | 9238 | 123/90.11,90.12,90.15-90.17,90.32, 90.44-90.48,90.52,90.55,90.56,90. 63,198F.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/08 13:13 |
| S12 2 | 6551 | 251/14,17,20,58,62,63,63.4,77,78, 82,89,89.5,95,129.03,129.2,129.19, 149,149.9,296.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/08 13:13 |
| S12 3 | 15744 | S121 or S122 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/08 13:13 |
| S12 4 | 1 | S123 and S120 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/08 13:23 |
| S12 5 | 42 | engine near2 (brak\$3 or releas\$3) same (intermediate near2 position) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/08 13:28 |
| S12 6 | 7 | S123 and S125 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/08 13:29 |
| S12 7 | 521 | ((intermediate near2 position) with valve) same lock\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/08 13:30 |
| S12 8 | 85 | S123 and S127 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/08 13:30 |

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| S12 9 | 52 | ((intermediate near2 position) with valve) same ((hydraulic\$4 or fluid\$6) near2 lock\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/08 13:30 |
| S13 0 | 9 | S123 and S129 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/08 13:31 |
| S13 1 | 43 | S129 not S130 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/08 13:37 |
| S13 2 | 76 | S128 not S129 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/08 13:44 |
| S13 3 | 160 | S127 and ("123"/\$ or "251"/\$).ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/08 13:44 |
| S13 4 | 75 | S133 not S128 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/08 13:44 |
| S13 5 | 72 | S134 not S129 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/08 13:45 |
| S13 6 | 5 | (US-6012424-\$ or US-6601563-\$ or US-6575126-\$ or US-6308690-\$ or US-5692469-\$).did. | USPAT | OR | ON | 2006/02/08 15:33 |
| S13 7 | 5 | S136 and exhaust adj gas | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/08 15:34 |
| S13 8 | 1 | (US-6601563-\$).did. | USPAT | OR | ON | 2006/02/09 12:28 |
| S13 9 | 0 | S138 and low adj pressure | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/09 12:38 |
| S14 0 | 0 | S138 and lash | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/09 12:46 |
| S14 1 | 0 | S138 and lock\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/09 12:47 |

EAST Search History

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|----------|---|--------------------------------------------------------------------------|---------------------------------------------|----|----|------------------|
| S14 2 | 0 | S138 and insufficient | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/09 12:52 |
| S14 3 | 0 | S138 and insufficiently | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/09 12:53 |
| S14 4 | 1 | S138 and pressuriz\$5 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/09 12:58 |
| S14 5 | 0 | S138 and (time or period) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/09 12:53 |
| S14 6 | 0 | S138 and intermittent | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/09 12:58 |
| S14 7 | 4 | (US-5692469-\$ or US-6012424-\$ or US-6308690-\$ or US-6575126-\$). did. | USPAT | OR | ON | 2006/02/09 12:37 |
| S14 8 | 3 | S147 and low adj pressure | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/09 12:38 |
| S14 9 | 1 | S147 and lash | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/09 12:46 |
| S15 0 | 1 | S147 and lock\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/09 12:47 |
| S15 1 | 1 | S147 and insufficient | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/09 12:52 |
| S15 2 | 0 | S147 and insufficiently | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/09 12:53 |
| S15 3 | 4 | S147 and (time or period) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/09 12:53 |

EAST Search History

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|----------|---|-----------------------------------------------------------------------------|---------------------------------------------|----|----|------------------|
| S15 4 | 0 | S147 and intermittent | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/09 12:58 |
| S15 5 | 3 | S147 and pressuriz\$5 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/09 13:00 |
| S15 6 | 4 | S147 and pressure | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/09 13:00 |
| S15 7 | 4 | (US-4050435-\$ or US-4423709-\$ or US-5996550-\$ or US-5692469-\$). did. | USPAT | OR | ON | 2006/02/19 15:19 |
| S15 8 | 2 | S157 and exhaust near2 gas | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/19 15:28 |
| S15 9 | 0 | S157 and compression adj ratio | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/19 15:28 |
| S16 0 | 4 | S157 and compression | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/19 15:35 |
| S16 1 | 1 | S157 and (sufficient or insufficient) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/19 15:36 |
| S16 2 | 1 | (US-6012424-\$).did. | USPAT | OR | ON | 2006/02/19 15:36 |
| S16 3 | 1 | S162 and (sufficient or insufficient) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/19 15:36 |
| S16 4 | 1 | (US-5692469-\$).did. | USPAT | OR | ON | 2006/02/19 16:48 |
| S16 5 | 1 | S164 and (inlet or intake) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/19 16:49 |
| S16 6 | 1 | S164 and valve | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/19 17:29 |

EAST Search History

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| S16 7 | 1 | (US-5692469-\$).did. | USPAT | OR | ON | 2006/02/19 17:29 |
| S16 8 | 1 | S167 and (predetermin\$3 or period or time) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/19 17:29 |
| S16 9 | 20 | (US-4423709-\$ or US-6601563-\$ or US-6722349-\$ or US-6732685-\$ or US-5839453-\$ or US-4399787-\$ or US-4050435-\$ or US-5327858-\$ or US-6575126-\$ or US-6308690-\$ or US-5000145-\$ or US-5816216-\$ or US-6237551-\$ or US-5996550-\$ or US-6012424-\$ or US-6928969-\$ or US-5809964-\$ or US-5787859-\$ or US-5692469-\$ or US-4206728-\$). did. | USPAT | OR | ON | 2006/11/13 17:08 |
| S17 0 | 613158 | (intake or inlet) with (exhaust or outlet) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/11/13 17:25 |
| S17 1 | 20 | S169 and S170 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/11/13 17:08 |
| S17 2 | 6878 | (intake or inlet) with (exhaust or outlet) with brak\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/11/13 17:26 |
| S17 3 | 9822 | 123/90.11,90.12,90.15-90.17,90.32, 90.44-90.48,90.52,90.55,90.56,90.63,198F.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/11/13 17:25 |
| S17 4 | 173 | S173 and S172 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/11/13 17:26 |
| S17 5 | 359 | (intake or inlet) with (exhaust or outlet) with engine adj brak\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/11/13 17:27 |
| S17 6 | 85 | S173 and S175 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/11/13 17:29 |
| S17 7 | 6 | (intake or inlet) with (exhaust or outlet) with alternatively with engine adj brak\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/11/13 17:29 |

EAST Search History

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|----------|-------|----------------------------------------------------------------------------------|---------------------------------------------|----|----|------------------|
| S17 8 | 6453 | (intake or inlet) with (exhaust or outlet) with alternatively | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/11/13 17:29 |
| S17 9 | 230 | S173 and S178 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/11/13 17:29 |
| S18 0 | 1 | (US-5692469-\$.did. | USPAT | OR | ON | 2006/11/15 15:08 |
| S18 1 | 1 | S180 and valve | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/11/15 15:21 |
| S18 2 | 1 | S180 and stroke | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/11/15 15:21 |
| S18 3 | 16449 | caterpillar-\$.as. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/04/09 13:58 |
| S18 4 | 20815 | caterpillar.as. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/04/09 13:58 |
| S18 5 | 20815 | S183 or S184 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/04/09 13:59 |
| S18 6 | 10141 | 123/90.11,90.12,90.15-90.17,90.32,90.44-90.48,90.52,90.55,90.56,90.63,198F.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/04/09 13:59 |
| S18 7 | 126 | S186 and S185 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/04/09 14:00 |
| S18 8 | 7 | "6655329" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/04/09 14:21 |
| S18 9 | 35 | "6510824" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/04/09 14:22 |

EAST Search History

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|----------|----|---------------------------|---------------------------------------------|----|----|------------------|
| S19 0 | 64 | "5537976" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/04/09 14:22 |
| S19 1 | 1 | (US-5996550-\$.did. | USPAT | OR | ON | 2007/04/10 12:36 |
| S19 2 | 1 | S191 and (time or period) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/04/10 12:37 |
| S19 3 | 1 | S191 and control\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/04/10 12:37 |